

Project Title	Funding	Strategic Plan Objective	Institution
In Vivo Functional Analysis of Autism Candidate Genes	\$123,750	Q4.S.B	Baylor College of Medicine
THE GENETIC AND NEUROANATOMICAL ORIGIN OF SOCIAL BEHAVIOR	\$391,250	Q4.S.B	Baylor College of Medicine
Preclinical Autism Consortium for Therapeutics (PACT)-Boston Children's Hospital	\$0	Q4.S.B	Boston Children's Hospital
Rebuilding Inhibition in the Autistic Brain	\$24,840	Q4.S.B	Brandeis University
Cellular models for autism de novo mutations using human stem cells	\$125,000	Q4.S.B	Broad Institute, Inc.
Mechanisms of circuit failure and treatments in patient-derived neurons in autism	\$406,250	Q4.S.B	BROWN UNIVERSITY
Analysis of autism-associated alleles in C. elegans	\$108,061	Q4.S.B	California Institute of Technology
Preclinical evaluation of NMDA receptor antagonists for treating Rett Syndrome	\$396,250	Q4.S.B	CASE WESTERN RESERVE UNIVERSITY
16p11.2: Defining the gene(s) responsible (grant 1)	\$212,100	Q4.S.B	Cold Spring Harbor Laboratory
A novel window into ASD through genetic targeting of striosomes - Project 1	\$77,447	Q4.S.B	Cold Spring Harbor Laboratory
Pinpointing Genes Underlying Autism in Chromosomal Region 16p11.2	\$1,250	Q4.S.B	Cold Spring Harbor Laboratory
Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism	\$0	Q4.Other	Cold Spring Harbor Laboratory
Role of the hippocampal CA2 region in autism	\$62,500	Q4.S.B	Columbia University
SCN2A mouse	\$60,000	Q4.S.B	Duke University
Understanding copy number variants associated with autism	\$125,000	Q4.S.B	Duke University
A novel neural circuit analysis paradigm to model autism in mice	\$238,500	Q4.S.B	Duke University
Characterization of synaptic and neural circuitry dysfunction underlying ASD-like behaviors using a novel genetic mouse model	\$0	Q4.S.B	Duke University
Oxytocin Receptors and Social Behavior	\$440,363	Q4.S.B	Emory University
Characterization of the Schizophrenia-associated 3q29 Deletion in Mouse	\$417,252	Q4.S.B	Emory University
Novel approaches to enhance social cognition by stimulating central oxytocin release	\$0	Q4.S.B	Emory University
Functional connectivity in monogenic mouse models of autism	\$0	Q4.S.B	Fondazione Istituto Italiano di Tecnologia
Dissecting striatal circuit dynamics during repetitive behaviors in autism	\$107,254	Q4.S.B	Funda�o D. Anna de Sommer Champalimaud e Dr. Carlos Montez Champalimaud
Disruption of Cortical Projection Neurons, Circuits, and Cognition in ASD	\$244,881	Q4.S.B	GEORGE WASHINGTON UNIVERSITY
Human Gene Editing and In Situ Sequencing of Neuronal Microcircuit Arrays	\$125,000	Q4.S.B	Harvard University

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Optical imaging of circuit dynamics in autism models in virtual reality	\$165,691	Q4.S.B	Harvard University
Analysis of oxytocin function in brain circuits processing social cues	\$125,000	Q4.S.B	Harvard University
Piloting Treatment with Insulin-Like Growth Factor-1 in Phelan-McDermid Syndrome	\$84,750	Q4.L.A	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Identifying therapeutic targets for autism using Shank3-deficient mice	\$487,448	Q4.S.B	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Prefrontal function in the Shank3-deficient rat: A first rat model for ASD	\$457,912	Q4.S.B	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
A new non-human primate model for studying communicative behaviors	\$62,500	Q4.S.B	Johns Hopkins University
Understanding brain disorders related to the 15q11.2 chromosomal region	\$250,000	Q4.S.B	Johns Hopkins University
A zebrafish model to identify epigenetic mechanisms relevant to autism	\$0	Q4.S.B	King's College London
Identifying autism-associated signaling pathways regulated by CHD8 in vivo	\$62,500	Q4.S.B	King's College London
Role of Caspr2 (CNTNAP2) in brain circuits - Project 1	\$0	Q4.S.B	King's College London
Functional analysis of the Schizophrenia and Autism Spectrum Disorder gene TCF4 i	\$457,500	Q4.S.B	LIEBER INSTITUTE, INC.
Molecular consequences of strong effect ASD mutations including 16p11.2	\$250,000	Q4.S.B	Massachusetts General Hospital
The tissue-specific transcriptome anatomy of 16p11.2 microdeletion syndrome	\$0	Q4.S.B	Massachusetts General Hospital
A novel window into ASD through genetic targeting of striosomes - Core	\$170,040	Q4.S.B	Massachusetts Institute of Technology
The role of PTCHD1 in thalamic reticular nucleus function and ASD	\$250,000	Q4.S.B	Massachusetts Institute of Technology
Synaptic pathophysiology of 16p11.2 model mice	\$0	Q4.S.B	Massachusetts Institute of Technology
GABA-A receptor subtypes as therapeutic targets in autism	\$0	Q4.Other	McLean Hospital
Studies of genetic and metabolic disorders, autism and premature aging	\$34,275	Q4.S.B	National Institutes of Health
Roles of Oxytocin and Vasopressin in Brain	\$1,866,157	Q4.S.B	National Institutes of Health
Neurobiological Signatures of Social Dysfunction and Repetitive Behavior	\$400,710	Q4.S.B	NEW YORK STATE PSYCHIATRIC INSTITUTE
Mechanisms of stress-enhanced aversive conditioning	\$381,250	Q4.S.B	Northwestern University
Role of the CUL3-mediated ubiquitination pathway in autism	\$0	Q4.S.B	Portland State University

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Targeting System Xc- for the treatment of the Autism Spectrum Disorder subpopulations, Fragile X syndrome and Phelan-McDermid syndrome	\$151,366	Q4.S.B	PROMENTIS PHARMACEUTICALS, INC.
PsychoGenics Inc.	\$98,114	Q4.S.B	PsychoGenics Inc.
Rapid drug discovery in genetic models of autism	\$0	Q4.S.B	Research Center of Centre hospitalier de l'Université de Montréal
A mouse model of top-down interactions	\$0	Q4.S.B	ROCKEFELLER UNIVERSITY
Top-down dynamics in autism	\$105,000	Q4.S.B	ROCKEFELLER UNIVERSITY
Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells	\$0	Q4.S.B	Salk Institute for Biological Studies
Behavioral evaluation of a novel autism mouse model	\$0	Q4.S.B	Shriners Hospitals for Children - Northern California
Chromatin remodeling in autism	\$250,000	Q4.S.B	Stanford University
Neural mechanisms of social reward in mouse models of autism	\$249,994	Q4.S.B	Stanford University
Detecting and Treating Social Impairments in a Monkey Model	\$146,468	Q4.S.B	Stanford University
Biomarker discovery for low sociability: A monkey model	\$62,500	Q4.S.B	Stanford University
Neurologin function in the prefrontal cortex and autism pathogenesis	\$250,000	Q4.S.B	Stanford University
Brain imaging of treatment response	\$62,167	Q4.S.B	The Hospital for Sick Children
Comparison of cortical circuit dysfunction in ASD model mice	\$62,500	Q4.S.B	The Regents of the University of California, Berkeley
Electrophysiological consequences of SCN2A mutations found in ASD	\$60,000	Q4.S.B	The Regents of the University of California, San Francisco (Contracts & Grants)
Uncovering the impact of 16p11.2del on neurons mediating motivated behavior	\$124,957	Q4.S.B	The Trustees of the University of Pennsylvania
Circuit-level developmental and functional dynamics in an ASD genetic model	\$0	Q4.S.B	Univeristy of Queensland
How do autism-related mutations affect basal ganglia function?	\$125,000	Q4.S.B	University of California, Berkeley
16p11.2 deletion mice: autism-relevant phenotypes and treatment discovery	\$0	Q4.S.B	University of California, Davis
Characterization of brain and behavior in 7q11.23 duplication syndrome-Project 1	\$103,684	Q4.S.B	University of California, Davis
Effects of Chronic Intranasal Oxytocin	\$1,105,938	Q4.S.B	University of California, Davis
Pre-clinical evaluation of oxytocin for ASD treatment discovery	\$244,898	Q4.S.B	University of California, Davis
Preclinical Autism Consortium for Therapeutics (PACT)	\$0	Q4.S.B	University of California, Davis
Linking cortical circuit dysfunction and abnormal behavior in genetic mouse models of autism	\$268,210	Q4.S.B	University of California, Los Angeles

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Exploring VIPR2 microduplication linkages to autism in a mouse model	\$42,000	Q4.S.B	University of California, Los Angeles
Role of Caspr2 (CNTNAP2) in brain circuits - Project 2	\$0	Q4.S.B	University of California, Los Angeles
Formation and Function of Circuitry for Vocal Learning	\$361,456	Q4.S.B	University of California, Los Angeles
Scalable technologies for genome engineering in hiPSCs	\$341,000	Q4.S.B	University of California, San Diego
The Role of Cation/Proton Exchanger NHE9 in Autism	\$125,000	Q4.S.B	University of California, San Francisco
In vivo approach to screen ASD allele functions in cortical interneurons	\$125,000	Q4.S.B	University of California, San Francisco
Microcircuit endophenotypes for autism	\$62,500	Q4.S.B	University of California, San Francisco
Investigating Wnt signaling variants in mouse models of ASD	\$0	Q4.S.B	University of California, San Francisco
Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells	\$0	Q4.S.B	University of California, San Francisco
Investigations of a Proposed Molecular Feedback Loop in Cortical Neurons in Psychiatric Pathogenesis	\$25,000	Q4.S.B	University of California, San Francisco
CHD8 and beta-catenin signaling in autism	\$125,000	Q4.S.B	University of Chicago
Stable Zebrafish Models of Autism Spectrum Disorder	\$75,250	Q4.S.B	University of Miami
Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$0	Q4.S.B	University of North Carolina
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Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$0	Q4.S.B	University of North Carolina
Comprehensive Phenotyping of Autism Mouse Models	\$0	Q4.S.B	University of Pennsylvania
Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X	\$0	Q4.S.B	University of Pennsylvania
Novel therapeutic targets to treat social behavior deficits in autism and related disorders	\$0	Q4.S.B	University of Texas San Antonio
Characterization of brain and behavior in 7q11.23 duplication syndrome-Core	\$138,402	Q4.S.B	University of Toronto
Novel Genetic Models of Autism	\$329,427	Q4.S.B	UT SOUTHWESTERN MEDICAL CENTER
Striatal synaptic Abnormalities in Models of Autism	\$397,500	Q4.S.B	UT SOUTHWESTERN MEDICAL CENTER
Modeling The Serotonin Contribution to Autism Spectrum Disorders	\$227,339	Q4.S.B	Vanderbilt University
Role of Caspr2 (CNTNAP2) in brain circuits- Core	\$0	Q4.S.B	Weizmann Institute of Science
High-throughput drug discovery in zebrafish models of ASD risk genes	\$62,500	Q4.S.B	Yale University

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Functional Analysis of Rare Variants in Genes Associated with Autism	\$147,905	Q4.S.B	Yale University

